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DB USPT; PLUR YES; OP OR

L14 L13 and ((800/\$)!.CCLS.)8 L14L13 L12 and l11433 L13L12 L1 or l6288691 L12L11 schewe.in. or knies.in. or amati.in. or lorz.in. or becker.in. or
landschutze.in. or pilling.in. or uwer.in. or frohberg.in.3386 L11L10 L7 and ((800/278)!.CCLS.)0 L10L9 L6 near5 l143 L9L8 L7 and l41 L8L7 l1 near10 L675 L7L6 phosphate\$ or phosphoryla\$217853 L6L5 l3 and L46 L5L4 ((800/284)!.CCLS.)200 L4L3 l1 near10 L231 L3L2 potato\$ or solanum33741 L2L1 R1 or pullulanase\$76534 L1

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 8 of 8 returned.

1. Document ID: US 6521816 B1

L14: Entry 1 of 8

File: USPT

Feb 18, 2003

US-PAT-NO: 6521816

DOCUMENT-IDENTIFIER: US 6521816 B1

TITLE: Nucleic acid molecules from rice and their use for the production of modified starch

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWMC
Draw Desc	Image										

2. Document ID: US 6462256 B1

L14: Entry 2 of 8

File: USPT

Oct 8, 2002

US-PAT-NO: 6462256

DOCUMENT-IDENTIFIER: US 6462256 B1

TITLE: Nucleic acid molecules from wheat, transgenic plant cells and plants and the thereof for the production of modified starch

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWMC
Draw Desc	Image										

3. Document ID: US 6353154 B1

L14: Entry 3 of 8

File: USPT

Mar 5, 2002

US-PAT-NO: 6353154

DOCUMENT-IDENTIFIER: US 6353154 B1

**** See image for Certificate of Correction ****TITLE: Nucleic acid molecules encoding starch phosphorylase from maize

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	RWMC
Draw Desc	Image									

4. Document ID: US 6307125 B1

L14: Entry 4 of 8

File: USPT

Oct 23, 2001

US-PAT-NO: 6307125

DOCUMENT-IDENTIFIER: US 6307125 B1

NO

starch
synthase

TITLE: Nucleic acid molecules encoding enzymes from wheat which are involved in starch synthesis

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KIMC

5. Document ID: US 6307124 B1

L14: Entry 5 of 8

File: USPT

NO Oct 23, 2001

starch
synthase

US-PAT-NO: 6307124

DOCUMENT-IDENTIFIER: US 6307124 B1

**** See image for Certificate of Correction ****

TITLE: Nucleic acid molecules encoding soluble starch synthases from maize

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KIMC

6. Document ID: US 6211436 B1

L14: Entry 6 of 8

File: USPT

Apr 3, 2001

US-PAT-NO: 6211436

DOCUMENT-IDENTIFIER: US 6211436 B1

NO
starch synthase

TITLE: Nucleic acid molecules from plants coding enzymes which participate in the starch synthesis

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KIMC

7. Document ID: US 5773699 A

L14: Entry 7 of 8

File: USPT

Jun 30, 1998

US-PAT-NO: 5773699

DOCUMENT-IDENTIFIER: US 5773699 A

**** See image for Certificate of Correction ****

NO

TITLE: Nucleotide sequences of galactinol synthase from zucchini and

soybean

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Drawn Desc	Image									

8. Document ID: US 5689039 A

L14: Entry 8 of 8

File: USPT

Nov 18, 1997

US-PAT-NO: 5689039

DOCUMENT-IDENTIFIER: US 5689039 A

TITLE: Plant peptide transport gene

NO

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Drawn Desc	Image									

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US Pre-Grant Publication Full-Text Database

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Database: IBM Technical Disclosure Bulletins**Search:**

L14

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L14 1357 L12(10A)L13

=>.s (starch? or glycogen?)/ab,bi

L15 180210 (STARCH? OR GLYCOGEN?)/AB,BI

=> s l14 and l15

L16 18 L14 AND L15

=> file biosis

=> s l16

L17 4 L14 AND L15

=> dup rem

L18 19 DUP REM L16 L17 (3 DUPLICATES REMOVED)

=> d l18 ti py

=> d l18 ti py 2-19

=> d l18 ab 1-8 18

L18 ANSWER 6 OF 19 CA COPYRIGHT 2003 ACS DUPLICATE 2
AB ***Starch*** granules were isolated from tubers or leaves of Solanum tuberosum L. and the ***starch*** assocd. proteins were analyzed. Based on the solubilization procedure used, two protein fractions were distinguished: proteins that are bound to the surface of the ***starch*** particles and those enclosed within the granule. A 160 kD ***starch*** assocd. protein was recovered in both fractions: in ***starch*** granule preps. isolated from darkened potato leaves it was predominantly located at the surface of the particle but in tuber ***starch*** it was mainly enclosed. In addn., the 160 kDa protein also occurs in a sol. state and resides in the stromal space of amyloplasts from tubers. By using matrix-assisted laser desorption/ionisation mass spectrometry (MALDI-MS) the 160 kDa protein was identified to be the recently described R1 that appears to be involved in phosphorylation and/or degrdn. of ***starch***. In a screening approach, ***starch*** granules and sol. proteins from tubers, seeds and fruits of a variety of plant species were analyzed for ***R1*** and the amt. of ***phosphate*** covalently bound to ***starch*** was detd. The level of ***R1*** did not correlate with the content of ***starch*** derived ***phosphate***.

L18 ANSWER 7 OF 19 CA COPYRIGHT 2003 ACS DUPLICATE 3
AB ***Starch*** granules were isolated from tubers or leaves of Solanum tuberosum L. and the ***starch*** -assocd. proteins were analyzed. Based on the solubilization procedure used, two protein fractions were distinguished: proteins that are bound to the surface of the ***starch*** particles and those enclosed within the granule. A 160-kD ***starch*** -assocd. protein was recovered in both fractions: in ***starch*** granule preps. isolated from darkened potato leaves it was predominantly located at the surface of the particle, but in tuber ***starch*** it was mainly enclosed. In addn., the 160-kDa protein also occurred in a sol. state and resided in the stromal space of amyloplasts from tubers. By using matrix-assisted laser desorption/ionization mass spectrometry (MALDI-MS) the 160-kDa protein was identified to be the recently described R1 that appears to be involved in phosphorylation and/or degrdn. of ***starch***. In a screening approach, ***starch*** granules and sol. proteins from tubers, seeds and fruits of a variety of plant species were analyzed for ***R1*** and the amt. of

phosphate covalently bound to ***starch*** was detd. The level of ***R1*** did not correlate with the content of ***starch***-derived ***phosphate***.

=> d 118 3-7 bib

L18 ANSWER 5 OF 19 CA COPYRIGHT 2003 ACS

AN 136:228472 CA

TI The Arabidopsis *sex1* mutant is defective in the R1 protein, a general regulator of ***starch*** degradation in plants, and not in the chloroplast hexose transporter

AU Yu, Tien-Shin; Kofler, Heike; Hausler, Rainer E.; Hille, Diana; Flugge, Ulf-Ingo; Zeeman, Samuel C.; Smith, Alison M.; Kossmann, Jens; Lloyd, James; Ritte, Gerhard; Steup, Martin; Lue, Wei-Ling; Chen, Jychian; Weber, Andreas

CS Institute of Molecular Biology, Academia Sinica, Taipei, Taiwan

SO Plant Cell (2001), 13(8), 1907-1918

CODEN: PLCEEW; ISSN: 1040-4651

PB American Society of Plant Biologists

DT Journal

LA English

RE.CNT 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 6 OF 19 CA COPYRIGHT 2003 ACS

DUPLICATE 2

AN 133:293529 CA

TI Compartmentation of the ***starch*** -related R1 protein in higher plants

AU Ritte, Gerhard; Eckermann, Nora; Haebel, Sophie; Lorberth, Ruth; Steup, Martin

CS Institut fur Biochemie und Molekulare Physiologie, Universitat Potsdam, Golm, 14476, Germany

SO Starch/Staerke (2000), 52(6-7), 179-185

CODEN: STARDD; ISSN: 0038-9056

PB Wiley-VCH Verlag GmbH

DT Journal

LA English

RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 7 OF 19 CA COPYRIGHT 2003 ACS

DUPLICATE 3

AN 133:205378 CA

TI Compartmentation of the ***starch*** -related R1 protein in higher plants

AU Ritte, Gerhard; Eckermann, Nora; Haebel, Sophie; Lorberth, Ruth; Steup, Martin

CS Potsdam, Germany

SO Starch/Staerke (2000), 52(5), 145-149

CODEN: STARDD; ISSN: 0038-9056

PB Wiley-VCH Verlag GmbH

DT Journal

LA English

RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file ca

=> s (potato? or solanum)/ab,bi

L19 60278 (POTATO? OR SOLANUM)/AB,BI

=> s 112

L20 421927 (R1 OR PULLULANASE?)/AB,BI

=> s 119(10a)l20

L21 115 L19(10A)L20

=> s 121 and 115

L22 48 L21 AND L15

=> s 122 not 116

L23 43 L22 NOT L16

=> file biosis

=> s 123

L24 14 L22 NOT L16

=> dup rem

L25 50 DUP REM L23 L24 (7 DUPLICATES REMOVED)

=> d 125 1-50 ti py

=> d 125 ab 12 14 15 17 19 32

=> d 125 bib 15 17 19 32

L25 ANSWER 15 OF 50 CA COPYRIGHT 2003 ACS

AN 130:233256 CA

TI Improvements in or relating to stability of plant ***starches*** by ✓
transformation with isoamylase-type or pullulanase-type debranching
enzymes

IN Jobling, Stephen Alan; Schwall, Gerhard Peter; Westcott, Roger John

PA National Starch and Chemical Investment Holding Corporation, USA

SO PCT Int. Appl., 51 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9912950	A2	19990318	WO 1998-GB2665	19980904
	WO 9912950	A3	19990506		
	W: AU, CA, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	CA 2302639	AA	19990318	CA 1998-2302639	19980904
	AU 9889911	A1	19990329	AU 1998-89911	19980904
	EP 1009751	A2	20000621	EP 1998-941593	19980904
	R: AT, BE, DE, DK, ES, FR, GB, GR, IT, NL, SE, PT, FI				
PRAI	GB 1997-18863	A	19970906		
	WO 1998-GB2665	W	19980904		

L25 ANSWER 17 OF 50 CA COPYRIGHT 2003 ACS

AN 129:77387 CA

TI Inhibition of a ***starch*** -granule-bound protein leads to modified
starch and repression of cold sweetening

AU Lorberth, Ruth; Ritte, Gerhard; Willmitzer, Lothar; Kossmann, Jens

CS Inst. fur Genbiologische Forschung Berlin GmbH, Berlin, 14195, Germany

SO Nature Biotechnology (1998), 16(5), 473-477

CODEN: NABIF9; ISSN: 1087-0156

PB Nature America

DT Journal
LA English

RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 19 OF 50 CA COPYRIGHT 2003 ACS

AN 128:32590 CA

TI A cDNA for a new debranching enzyme of potato for use in modulating the
amylopectin content of ***starches***

PA PlantTec Biotechnologie GmbH Forschung und Entwicklung, Germany

SO Ger. Offen., 20 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19618125	A1	19971113	DE 1996-19618125	19960506
	WO 9742328	A1	19971113	WO 1997-EP2292	19970506
	W: AU, CA, HU, JP, PL, SI, US				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	AU 9728917	A1	19971126	AU 1997-28917	19970506
	AU 724164	B2	20000914		
	EP 900277	A1	19990310	EP 1997-922969	19970506
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT				
	JP 2000509286	T2	20000725	JP 1997-539534	19970506
	US 6255563	B1	20010703	US 1998-187124	19981105
PRAI	DE 1996-19618125	A	19960506		
	WO 1997-EP2292	W	19970506		

=> file ca

=> s (corn or maize or rice or zea or wheat)/ab,bi

L26 260101 (CORN OR MAIZE OR RICE OR ZEA OR WHEAT)/AB,BI

=> s l26(10a)l12

L27 464 L26(10A)L12

=> s l27 and l15

L28 115 L27 AND L15

=> s l27(10a)l15

L29 98 L27(10A)L15

=> s (transgen? or agrobacterium or biolistic? or microproject? or microinject?

L30 77506 (TRANSGEN? OR AGROBACTERIUM OR BIOLISTIC? OR MICROPROJECT? OR
MICROINJECT? OR ELECTROPORAT?)/AB,BI

=> s l30 and l29

L31 8 L30 AND L29

=> s l31 not l16

L32 6 L31 NOT L16

=> file biosis

=> s l32

L33 0 L31 NOT L16

=> file ca

=> d 132 1-6 ti py

=> d 132 ab 2 3 5 6

=> d 132 bib 2 3 5 6

L32 ANSWER 2 OF 6 CA COPYRIGHT 2003 ACS

AN 134:54075 CA

TI A gene for the ***starch*** -associated ***R1*** protein of
wheat and its use altering the properties of ***wheat***
starch

IN Abel, Gernot; Loerz, Horst; Luetticke, Stephanie; Schmidt, Ralf-christian

PA Aventis Cropscience G.m.b.H., Germany

SO Ger. Offen., 16 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19926771	A1	20001214	DE 1999-19926771	19990611
	WO 2000077229	A2	20001221	WO 2000-EP5064	20000602
	WO 2000077229	A3	20010531		
	W: AE, AG, AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CR, CU, CZ, BR 2000011499 A 20020319 BR 2000-11499 20000602				
	JP 2003502049	T2	20030121	JP 2001-503671	20000602
	US 6462256	B1	20021008	US 2000-590101	20000608
	US 2003077805	A1	20030424	US 2002-206933	20020723
PRAI	DE 1999-19926771	A	19990611		
	WO 2000-EP5064	W	20000602		
	US 2000-590101	A3	20000608		

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 3 OF 6 CA COPYRIGHT 2003 ACS

AN 132:344138 CA

TI Cloning of ***R1*** protein cDNA from ***rice*** and uses for
modifying ***starch*** phosphorylation in ***transgenic*** plants

IN Froberg, Claus

PA Planttec Biotechnologie G.m.b.H., Germany

SO PCT Int. Appl., 59 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000028052	A2	20000518	WO 1999-EP8506	19991105
	WO 2000028052	A3	20000803		
	BR 9915152 A 20010807 BR 1999-15152 19991105				
	EP 1131452	A2	20010912	EP 1999-971857	19991105
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 2002529094	T2	20020910	JP 2000-581219	19991105
	US 6521816	B1	20030218	US 1999-436874	19991109
PRAI	US 1998-107883P	P	19981109		
	WO 1999-EP8506	W	19991105		

L32 ANSWER 5 OF 6 CA COPYRIGHT 2003 ACS

AN 131:307689 CA
TI Protein and cDNA sequences of starch R1 phosphorylation proteins, and uses thereof for altering starch phosphorylation in ***transgenic*** plants
IN Cressman, Robert F.; Allen, Stephen M.
PA E.I. Du Pont De Nemours and Company, USA
SO PCT Int. Appl., 54 pp.
CODEN: PIXXD2

DT Patent
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9953072	A1	19991021	WO 1999-US7639	19990408
	W: AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GD, GE, HR, HU, ID, AU 9934784	A1	19991101	AU 1999-34784	19990408
	BR 9908858	A	20001219	BR 1999-8858	19990408
	EP 1068333	A1	20010117	EP 1999-916471	19990408
	R: DE, FR, GB				
PRAI	US 1998-81143P	P	19980409		
	WO 1999-US7639	W	19990408		

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 6 OF 6 CA COPYRIGHT 2003 ACS

AN 131:29298 CA

TI Isolation of SU1, a starch debranching enzyme, the product of the maize gene sugary1

IN Myers, Alan M.; James, Martha Graham

PA Iowa State University Research Foundation, Inc., USA

SO U.S., 39 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5912413	A	19990615	US 1995-410784	19950324
	US 6410716	B1	20020625	US 1999-256741	19990224
PRAI	US 1995-410784	A2	19950324		

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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